

MOHAMED AHMED

Computer Engineering Student

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PROFESSIONAL SUMMARY

Computer Engineering student at Cairo University with hands-on academic project experience in backend development, databases, web development, embedded systems, IoT, robotics, and machine learning. Seeking internships and entry-level opportunities to apply software and hardware engineering skills to practical products.

EDUCATION

Cairo University | Bachelor of Science in Engineering, Computer Engineering | 2024 - 2029 (Expected)

TECHNICAL SKILLS

Programming: C++, SQL, PL/SQL

Web Development: HTML, CSS, Bootstrap, React

Embedded and IoT: Arduino, ESP32, STM32, Robotics, Internet of Things (IoT)

Tools: GitHub, Microsoft Office, Google Workspace

PROJECTS

IoT Incubator Graduation Project | IoT Course

- Completed the IoT course graduation project focused on an incubator application.
- Applied Internet of Things concepts within a practical embedded-systems project.

Nursing Robot | Academic Project

- Developed a nursing robot with health-related functions, including heart-rate monitoring and kidney-wash simulation.
- Used assembly language on STM32 for embedded-system implementation.

Hospital Information System | IEEE Workshop Final Project

- Developed backend functionality for patient registration and data management.
- Designed database operations for storing and retrieving patient records.

RC Car Maze Solver | Academic Competition Project

- Built an Arduino-based maze-solving RC car using C/C++.
- Integrated sensors for obstacle detection and path navigation; collaborated on testing, debugging, and movement-logic improvements.
- Achieved 3rd place in the academy competition.

AWARDS AND ACHIEVEMENTS

1st Place - Machine Learning Competition | Machine Learning Course Graduation Project

- Earned first place in a machine learning competition completed as part of the course graduation project.

EXPERIENCE

Chemistry Teaching Assistant | General Secondary Stage | Sep 2024 - Nov 2025

- Assisted students by answering scientific chemistry questions and explaining core concepts.
- Created quizzes with Microsoft Word, Google Drive, and Google Forms to support exam preparation.

CERTIFICATIONS

Oracle APEX Workshop Certificate - Global Academy | Quantum Foundation - GateIn Academy | Machine Learning - Pixels Egypt | IoT Certificate - Pixels Egypt | Front-End Module - IEEE | Back-End Module - IEEE | Robotics and Embedded Systems Certificate - Engate Academy | C++ Course - Black Horse Academy

LANGUAGES

Arabic: Native | English: Fluent | French: Intermediate